

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

#13

Sheet 1 of 1

**Complete if Known**

Application Number	09/560,715
Filing Date	April 27, 2000
First Named Inventor	Rich, William E., et. al.
Art Unit	1623 / 1773
Examiner Name	Gitomer, Ralph J.
Attorney Docket Number	016866-002810US

**U.S. PATENT DOCUMENTS**

Examiner	Cite No. <sup>1</sup>	Document Number Number Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
AA	AA	US-4,154,638	05/15/1979	Franz et al.	
	AB	US-5,512,492	06/30/1996	Herron et al.	
	AC	US-			
	AD	US-			
	AE	US-			
	AF	US-			
	AG	US-			
	AH	US-			
	AI	US-			
	AJ	US-			
	AK	US-			
	AL	US-			
	AM	US-			
	AN	US-			
	AO	US-			
	AP	US-			
	AQ	US-			
	AR	US-			
	AS	US-			
	AT	US-			

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
SA	AU	WO	98/05269	A1	02-12-1998	Purdue Research Foundation	—	<input type="checkbox"/>
	AV							<input type="checkbox"/>
	AW							<input type="checkbox"/>
	AX							<input type="checkbox"/>
	AY							<input type="checkbox"/>
	AZ							<input type="checkbox"/>
	BA							<input type="checkbox"/>
	BB							<input type="checkbox"/>

Examiner  
Signature

Shuta Ahmed

Date  
Considered

7/23/04

\*EXAMINER: Initial reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Kind Codes of U.S. Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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Substitute for form 1449A/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 2

### Complete if Known

Application Number 09/60,715  
Filing Date April 27, 2000  
First Named Inventor Rich et al.  
Group Art Unit 2878 1773  
Examiner Name Unassigned  
Attorney Docket Number 16866-0028100

### U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
AA	1A	5,955,729		Nelson et al.	09/21/1999	
AB		5,196,302		Kidwell	03/23/1993	
AC		5,118,937		Hillenkamp et al.	06/02/1992	
AD		5,045,694		Beavis et al.	09/03/1991	
AE		5,478,873		Sanada et al.	12/26/1995	
AF		5,853,994		Gopinathan et al.	12/29/1998	
AG		5,532,279		Barretto et al.	07/02/1996	
AH		4,462,892		Rosevear, Alan	06/05/1984	
AI		5,403,902		Heilmann et al.	04/04/1995	
AJ		5,776,706		Siiman et al.	07/07/1998	
AK		4,070,348		Kräemer et al.	01/24/1978	
AL		5,786,439		Van Antwerp et al.	07/28/1998	
AM		5,436,161		Bergström et al.	07/25/1995	
AN		5,393,430		Giroi et al.	02/28/1995	
AO		5,268,097		Giroi et al.	12/07/1993	
AP		5,478,893		Ghosh et al.	12/26/1995	
AQ		5,393,430		Giroi et al.	02/28/1995	
AR		5,316,912		Heimgartner et al.	05/31/1994	
AS		5,719,060		Hutchens et al.	02/17/1998	
AT		5,316,912		Heimgartner et al.	03/31/1994	
AU	1A	6,143,499		Mirzabekov et al.	11/07/2000	

### FOREIGN PATENT DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>5</sup>
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
AW	1A	WO	99/36576			09/22/1999		
AX		WO	00/56934			09/28/2000		
AY		WO	94/28418			08/12/1994		
AZ		WO	98/59361			12/30/1998		
AAA	1A	WO	97/09608			03/13/1997		

Examiner Signature

Shuba Khanna

Date Considered

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<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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Substitute for form 1449B/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>		Complete if Known	
		Application Number	09/560,715
		Filing Date	April 27, 2000
		First Named Inventor	Rich et al.
		Group Art Unit	<del>2878</del> 1773
		Examiner Name	Unassigned
		Attorney Docket Number	16866-0028100
Sheet	2	of	2

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
SA	AAB	Sensor Chip CMS; website <a href="http://www.biacore.com/products/sc_cm5.html">http://www.biacore.com/products/sc_cm5.html</a>	
SA	AAC	Microsphere Selection Guide, December, 1998, Bangs Laboratories, Inc., Fishers, IN, pp. 1-8	

Examiner Signature		Date Considered	7/23/04
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<sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

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SF 1195709 v1

#5

FORM PTO-1449 (Modified)			Attorney Docket No.: 16866-002810US		Application No.: 09/560,715	
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)			Applicant: Rich et al.			
			Filing Date: April 27, 2000		Group: <del>2878</del> 1773	
Reference Designation			U.S. PATENT DOCUMENTS			Page 1
Examiner Initial	Document No.	Date	Name	Class	Sub-class	Filing Date (If Appropriate)
AA	4,721,647	Jan. 26, 1988	Nakanishi <i>et al.</i>	428	283	May 29, 1986
AB	4,446,261	May 1, 1984	Yamasaki <i>et al.</i>	524	40	Mar. 22, 1982
AC	4,367,323	Jan. 4, 1983	Kitamura <i>et al.</i>	526	201	Dec. 2, 1981
AD	4,656,127	Apr. 7, 1987	Mundy	435	6	Apr. 23, 1984
AE	5,871,928	Feb. 16, 1999	Fodor <i>et al.</i>	435	6	Jun. 11, 1997
AF	5,700,637	Dec. 23, 1997	Southern	435	6	Apr. 19, 1994
AG	5,847,105	Dec. 8, 1998	Baldeschwieier <i>et al.</i>	536	25.3	Aug. 13, 1997
AH	5,744,305	Apr. 28, 1998	Fodor <i>et al.</i>	435	6	Jun. 6, 1995
AI	5,807,522	Sept. 15, 1998	Brown <i>et al.</i>	422	50	Jun. 7, 1995
AJ	6,110,426	Aug. 29, 2000	Shalon and Brown	422	68.1	Dec. 30, 1997
AK	3,896,661	Jul. 29, 1975	Parkhurst and McReynolds	H01J	39/34	Jan. 9, 1974
AL	5,242,828	Sept. 7, 1993	Bergstrom <i>et al.</i>	435	287.1	May 10, 1991
AM	5,492,840	Feb. 20, 1996	Malmqvist <i>et al.</i>	436	518	May 10, 1991
AN	60/125,954	---	Engelert <i>et al.</i>			Mar. 24, 1999
AO	60/071,980	---	Taylor <i>et al.</i>			Jan. 20, 1998
AP	60/072,089	---	Taylor <i>et al.</i>			Jan. 21, 1998
AQ	5,436,161	Jul. 25, 1995	Bergstrom <i>et al.</i>	435	291	Jul. 22, 1994
AR	60/075,698	---	Taylor <i>et al.</i>			Jan. 21, 1998
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	Document No.	Date	Country	Class	Sub-class	Translation (Yes/No)
AS	GB 2 156 074 A	2 October 1985	Great Britain	G01N	33/53	No
AT	WO 95/25116	21 September 1995	PCT	C07H C12Q	21/00 1/68	No
AU	WO 95/35505	28 Dec. 1995	PCT	G01N	33/543 33/68	No
AV	WO 90/05305	17 May 1990	PCT	G01N	33/543; 33/563	No
AW	WO 90/05295	17 May 1990	PCT	G01N	21/17;	No
AX	GB 2 236 185 A	03 27 1991	Great Britain	G01N	37/00	No
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)						
AY	Khrapko <i>et al.</i> , "A method for DNA sequencing by hybridization with oligonucleotide matrix," <i>DNA Sequence-J. DNA Sequencing and Mapping</i> 1: 375-388 (1991)					
AZ	Frank, "Strategies and Techniques in Simultaneous Solid Phase Synthesis Based on the Segmentation of Membrane Type Supports," <i>Bioorganic and Medicinal Chemistry Letters</i> , 3(3): 425-430 (1993)					
BA	Lofas and Johnsson, "A Novel Hydrogel Matrix on Gold Surfaces in Surface Plasmon Resonance Sensors for Fast and Efficient Covalent Immobilization of Ligands," <i>J. Chem. Soc. Chem. Commun.</i> (1990) 1526-1528.					

FORM PTO-1449 (Modified)		Attorney Docket No.: 16866-002810US	Application No.: 09/560,715
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		Applicant: Rich et al.	
		Filing Date: April 27, 2000	Group: 2878- 1223
<u>BA</u> BB	Johnsson <i>et al.</i> "Comparison of methods for immobilization to carboxymethyl dextran sensor surfaces by analysis of the specific activity of monoclonal antibodies," <i>J. Mol. Recognit.</i> (1995) Jan-Apr;8(1-2):125-131.		
BC	Jonsson <i>et al.</i> "Real-time biospecific interaction analysis using surface plasmon resonance and a sensor chip technology," <i>Biotechniques</i> . (1991) Nov; 11(5): 620-627.		
BD	Johnsson <i>et al.</i> "Immobilization of proteins to a carboxymethyl-dextran-modified gold surface for biospecific interaction analysis in surface plasmon resonance sensors," <i>Anal. Biochem.</i> (1991) Nov 1; 198(2): 268-277.		
<u>BA</u> BE	Merrill <i>et al.</i> (1996) Hydrogels in Medicine and Pharmacy, Vol. III, Ed. Peppas NA, Chapter 1, CRC Press		
EXAMINER	<i>Shubert</i>	DATE CONSIDERED	7/23/04

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